

IX.4.3C PREPROCESSOR PARAMETRIC DATA BASE PARAMETER ARRAY CONTENTS

This Section describes the contents of the Preprocessor Parametric Data Base parameter arrays stored in parameter records.

The parameter arrays described are:

<u>Type</u>	<u>Group</u>	<u>Contents</u>
ASSM	Other	Assimilation Operation parameters
BASN	Basin	Basin boundary parameters
CHAR	Special	Station precipitation characteristics <u>2/</u>
FFG	Other	Flash Flood Guidance Operation parameters
FMPO	Computational Order	Future Mean Areal Precipitation computational order <u>1/</u>
GENL	Station	Station general parameters
MAP	Areal	Mean Areal Precipitation area parameters
MAPE	Areal	Mean Areal Potential Evaporation area parameters
MAPS	Areal	Mean Areal Precipitation station parameters
MAPX	Areal	NEXRAD Mean Areal Precipitation area parameters
MAT	Areal	Mean Areal Temperature area parameters
MMMT	Special	Station mean monthly maximum/minimum temperatures <u>2/</u>
MPCO	Computational Order	Mean Areal Precipitation Carryover Group computational order
MPFO	Computational Order	Mean Areal Precipitation Forecast Group computational order
MXCO	Computational Order	NEXRAD Mean Areal Precipitation computational order
NTWK	General	Indicators for NETWORK command <u>1/</u>
OE24	Alphabetical Order	Potential evaporation alphabetical order <u>1/</u>
OP24	Alphabetical Order	24 hour precipitation station

<u>Type</u>	<u>Group</u>	<u>Contents</u>
		alphabetical order <u>1/</u>
OPVR	Alphabetical Order	Less than 24 hour precipitation station alphabetical order <u>1/</u>
ORDR	Computational Order	General Computational order information <u>1/</u>
ORRS	Alphabetical Order	River, reservoir and snow station alphabetical order <u>1/</u>
OT24	Alphabetical Order	24 hour maximum/minimum temperature station alphabetical order <u>1/</u>
PCPN	Station	Station precipitation parameters
PE	Station	Station potential evaporation parameters
RRS	Station	Station river, reservoir and snow parameters
STBN	General	State boundary parameters <u>1/</u>
TEMP	Station	Station temperature parameters
USER	General	User general parameters <u>1/</u>
URRS	General	User river, reservoir and snow parameters <u>1/</u>
XGRD	Other	NEXRAD Mean Areal Precipitation area HRAP grid points

The following information is included for each parameter array:

- o Purpose
- o Array Contents
 - o full word starting location of each variable in array
 - o dimension of each variable
 - o type of each variable 3/
 - An = n byte Alphanumeric
 - I*2 = 2 byte Integer
 - I*4 = 4 byte Integer
 - R*4 = 4 byte Real

- o indicator as to whether each variable is input by user or generated by the Preprocessor Component Initialization Program (PPINIT)

The first word in each parameter array is the parameter array version number. This number is used to indicate to the software using the array the format of the parameters in the array. The version number is changed whenever the structure of the array is changed.

Notes:

- 1/ These parameter types differ from the others because there is only one parameter record. All other parameter types can have more than one parameter record.
- 2/ These are special parameters types that cannot be accessed using the same routine (RPPREC) used to access regular parameter types.

The parameter type CHAR can be read using the routines RPPCHR and RPP1CH.

The parameter type MMMT can be read using the routines RPPMT and RPP1MT.

- 3/ All variables are stored in the parameter array as real numbers, except I*2 variables. The type indicated is the variable type before it is stored in the array. Real and character variables are stored with no conversion. Integer variables greater than zero have .01 added when they are stored. Integer variables less than zero have .01 subtracted when they are stored. INTEGER*2 variables are stored by moving the actual I*2 bytes into the parameter array.